wherein the single image comprises a first portion corresponding to a first portion of the emission time period of the emissive species and a second portion corresponding to a second portion of the emission time period of the emissive species, and

wherein a difference between a property of the first portion and the second portion is associated with a characteristic of the chemical tag.

13. A system as in claim **12**, wherein the emissive species produces a detectable steady-state emission.

14. A system as in claim **12**, comprising a second emissive species, different th(Currently Amended) An the emissive species, wherein the second emissive species produces a detectable steady-state emission under a set of conditions.

15. A system as in claim **12**, wherein the image sensor is configured to detect the detectable steady-state emission.

16. A system as in claim **12**, wherein at least one characteristic of the detectable non-steady state emission varies during detection of the detectable non-steady state emission by the image sensor.

17. A system as in claim **12**, wherein the emissive species is a chemical and/or biological species.

18. An imaging system as in claim **12**, wherein the chemical tag comprises a plurality of emissive species.

19. A system as in claim **12**, wherein the excitation component is configured to excite a plurality of emissive species.

20. A system as in claim **12**, wherein at least two emissive species of the plurality of emissive species are chemical and/or biological species.

21-50. (canceled)

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